

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An intraluminal stent device, comprising:
two or more elements aligned to form adjacent elements, each element having a similar pattern of undulations forming peaks and valleys, said pattern being formed from a repeating series including
a long segment connecting with a first peak turn, said first peak turn being defined by a single turn radius, said first peak turn connecting with a first midsized segment, said first midsized segment connecting with a first valley turn, said first valley turn connecting with a short segment, said short segment connecting with a second peak turn, said second peak turn connecting with a second midsized segment, said second midsized segment connecting with a second valley turn, said second valley turn connecting with a long segment of a similar adjacent series,
wherein said elements are connected directly to adjacent said elements.

Claim 2 (original): The intraluminal stent device of claim 1, wherein either at least one first peak turn of a first element is connected to a first valley turn of an adjacent second element or at least one second peak turn of a first element is connected to a second valley turn of an adjacent second element.

Claim 3 (currently amended): The intraluminal stent device of claim 2, wherein ~~all but the first and last elements have~~ element has a first connection point and a second connection point with an adjacent element, said first connection point being from a first peak turn of the first element to a first valley turn of the second element and wherein said second connection point is from a second peak turn of the first element to a second valley turn of the second element.

Claim 4 (currently amended): The intraluminal stent device of claim 3, wherein said first and second connection points between a said first element and a said second element are circumferentially displaced from ~~said~~ first and second

connection points between said second element and a third element, such that subsequent first and second connection points form a longitudinal double helix pattern.

Claim 5 (original): The intraluminal stent device of claim 1, wherein said adjacent elements are connected by welding.

Claim 6 (original): The intraluminal stent device of claim 1, wherein said adjacent elements are formed connected.

Claim 7 (original): The intraluminal stent device of claim 1, wherein said elements are formed from a toroid.

Claim 8 (original): The intraluminal stent device of claim 1, wherein said first valley turn and said second peak turn have a larger turn radius than that of said first peak turn and said second valley turn.

Claim 9 (original): The intraluminal stent device of claim 1, wherein said two or more elements are placed onto a balloon of a balloon catheter for expansion within a body lumen.

Claim 10 (currently amended): An intraluminal stent device, comprising:
two or more elements, each element having undulations forming peaks and valleys formed from a repeating series including a long segment, a first mid-sized segment, a short segment, and a second mid-sized segment, each connected by hairpin turns, each hairpin turn being defined by a single turn radius,
wherein said elements are connected directly to adjacent said elements.

Claim 11 (original): The intraluminal stent device of claim 10, wherein adjacent elements are connected by welding.

Claim 12 (original): The intraluminal stent device of claim 10, wherein adjacent elements are formed connected.

Claim 13 (original): The intraluminal stent device of claim 10, wherein said elements are formed from a toroid.

Claim 14 (currently amended): The intraluminal stent device of claim 10, wherein said hairpin ~~turns~~ turn between said first midsized segment and said short segment has a larger turn radius ~~that~~ than said hairpin turn between said long segment and said first midsized segment.

Claim 15 (currently amended): The intraluminal stent device of claim 10, wherein said hairpin ~~turns~~ turn between said short segment and said second midsized segment has a larger turn radius ~~that~~ than said hairpin turn between said long segment and said first midsized segment.

Claim 16 (original): The intraluminal stent device of claim 10, wherein said elements are directly connected to adjacent said element at the hairpin turns.

Claim 17 (original): The intraluminal stent device of claim 16, wherein said hairpin turns are welded together.

Claim 18 (original): The intraluminal stent device of claim 16, wherein said hairpin turns are soldered together.

Claim 19 (currently amended): An intraluminal stent device, comprising:
two or more elements, each element having undulations forming peaks and valleys formed from a repeating series including a long segment connecting with a first peak turn, said first peak turn connecting with a first midsized segment, said first midsized segment connecting with a first valley turn, said first valley turn connecting with a short segment, said short segment connecting with a second peak turn, said second peak turn connecting with a second midsized element, and a said second midsized segment connecting with a second valley turn, said elements are aligned longitudinally such that said long segments of a first element ~~abuts~~ overlaps said short segments of a second adjacent element, ~~forming an area where said long segments of said first and second adjacent elements overlap,~~

wherein a connecting member spans between one of said long segments of said first element and one of said long segments of said second adjacent element in a radial direction.

Claim 20 (original): The intraluminal stent device of claim 19, wherein said connecting member is sinusoidal shaped.

Claim 21 (original): The intraluminal stent device of claim 19, wherein said connecting member is connected to said first and said second adjacent elements by welding.

Claim 22 (original): The intraluminal stent device of claim 19, wherein said connecting member is formed connected to said first and said second adjacent elements in a unitary structure.